

NOTES CONCERNING *JUNCUS CORIACEUS*.—In Gray's Manual, both the 7th and 8th editions, *J. coriaceus* Mackenzie (*J. setaceus* Rostkovius) is said to have long-stipitate seeds. The illustration, in both editions, shows a stipe about three-fourths as long as the seed, with an appendage, presumably the "beak," displayed quite prominently at the opposite end. Buchenau¹ also refers to the seeds of this species as being stipitate.

In examining our material of *J. coriaceus*, I could find no long-stipitate seeds and accordingly borrowed material from the Gray Herbarium for comparison. In studying selected specimens from Virginia, North Carolina, South Carolina, Georgia, Florida, Tennessee, Mississippi, Louisiana and Texas none was found having long-stipitate seeds, although there is a short point, perhaps one-tenth the length of the seed, on one end. The seeds appear to be covered with a thin, almost transparent membrane, or secretion. This may cover the seeds uniformly at maturity, in which case it is hardly noticeable, or it may appear as a point or beak on one end, or as one or more ridges, or wings, on the sides of the seeds. Probably it assumes these various forms in response to pressure that may be exerted on the crowded seeds as they grow and mature. In any event the presence of either a long stipe, or of a "beak," cannot be used as taxonomic characteristics in this species.

In Oklahoma this species is found only in the southeastern part of the state. Representative sheets from four counties are: McCURTAIN Co., *Waterfall 8471*, along creek south of Tom, Aug. 7, 1948; *Waterfall 9887*, edge of pond in oak-pine woods, two miles southeast of Bethel; LEFLORE Co., *Stevens 2693*, in rocky bed of dried-up mountain creek near Page, Sept. 8, 1913 (Gray Herbarium and Oklahoma A. & M.); CHOCTAW Co., *Houghton 3983*, pond banks near Ft. Towson, May 31, 1916 (Gray); PUSHMATAHA Co., *Waterfall 349*, sandy soil, five miles west and 0.7 miles north of Albion, Aug. 10, 1932.

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¹ Buchenau, Fr. *Juncaceae*, Das Pflanzenreich, Heft 25 (14: 36): 123. 1906.